

L 41726-66 EWT(m)/EWP(j)/EWP(t)/ETI IJP(c) JD/WW/JG/RM

ACC NR: AP6020370

(A)

SOURCE CODE: UR/0078/66/011/003/0520/0528

AUTHOR: Gorbenko-Germanov, D. S.; Zenkova, R. A.

ORG: none

TITLE: Potassium and cesium neptunoyl tricarbonates

SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 3, 1966, 520-528

TOPIC TAGS: neptunium compound, potassium compound, cesium compound, carbonate

ABSTRACT: Potassium and cesium neptunoyl tricarbonates were prepared from neptunium dioxide, and analysis established their common formula as  $R_5[NpO_2(CO_3)_3]$  ( $R = K^+, Cs^+$ ). Their solubility in water, 0.2 M and 50%  $K_2CO_3$  and  $Cs_2CO_3$  solutions was determined. Data on the neptunium content of carbonate mother solutions indicate that the dicarbonate complexes  $[NpO_2(CO_3)_2]^{3-}$  may be present in them. Absorption spectra of  $NpO_2^+$  in 50%  $K_2CO_3$  and  $Cs_2CO_3$  solutions were recorded in the 9000-10500 Å range; a substantial decrease of the molar extinction coefficient  $\epsilon$  (by a factor of about 30) was observed as compared to the value of  $\epsilon$  in 1 M  $HNO_3$ , indicating strong complex formation between  $NpO_2^+$  and carbonate ions. A study of the absorption spectra of crystalline  $R_5[NpO_2(CO_3)_3]$  ( $R = K^+, Cs^+$ ) in the 9000-1000 Å range permitted the determination of molar extinction coefficients of the individual splitting components of the  $NpO_2^+$  band in the 9500-9600 Å range. Analysis of vibrational IR spectra of the

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neptunoyl tricarbonates showed an increase in the interaction of  $\text{NpO}_2^+$  with  $\text{CO}_3^{2-}$  on passing from potassium to cesium, manifested in a decrease of the force constant  $f$  of the Np-O bond from 0.504 to 0.498 mdyne/cm ( $r_{\text{Np-O}} = 1.80 \text{ \AA}$ ). The symmetry of  $\text{CO}_3^{2-}$  in the neptunoyl tricarbonates was found to decrease from  $D_{3h}$  to  $C_{2v}$ . Orig. art. has: 4 figures and 7 tables.

SUB CODE: 07/ SUBM DATE: 06Jul65/ ORIG REF: 009/ OTH REF: 003

Card 2/2 af

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A valuable reference book "The glaciers of Central Asia; a bibliography.  
(O.V.Maslova. Reviewed by V.Zenkova.) Vest.AN Kazakh.SSR 10 no.6:109-  
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Asia, Central)

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(Ayutor Valley--Glaciers)

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Glaciers of Dzungarian Ala-Tau. Trudy Sekt.geog.AN Kazakh.SSR  
no.3:138-155 '59. (MIRA. 12:7)  
(Dzungarian Ala-Tau--Glaciers)

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'59. (MIRA 12:7)

(Kora Valley--Glaciation)

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A new fungus from the family Pucciniaceae-Uromyces euphorbia-  
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Bot.zhur. 39 no.6:915-917 N-D '54. (MIRA 8:2)  
(Taymyr Peninsula--Hepaticae)

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A study of hepaticas of Taymyr (Ad floram Hepaticarum paeninsula  
Taymyr). Bot. mat. Otd. spor. rast. 9:162-168 My '53. (MLRA 7:2)  
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S '63. (MIRA 16:11)

1ST AND 2ND COVERS		PROCESSES AND PROPERTIES INDEX	
ZENKOVICH, B. A.		a-4	
BC			
<p>Temperature of whales. B. A. ZENKOVITSCH (Compt. rend. Acad. Sci. U.R.S.S., 1939, 19, 686— 687).—The body temp. of dying whales, determined by inserting thermometers 30—40 cm. below the surface of the animal, varied between 35° and 38.5°. A. S.</p>			
<p>AS 354 METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>AS 354 METALLURGICAL LITERATURE CLASSIFICATION</p>		<p>AS 354 METALLURGICAL LITERATURE CLASSIFICATION</p>	
<p>AS 354 METALLURGICAL LITERATURE CLASSIFICATION</p>		<p>AS 354 METALLURGICAL LITERATURE CLASSIFICATION</p>	

1ST AND 2ND ORDERS		100 AND 101 (UPPER)	
ZENKOVICH, B. A.			
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<div style="position: absolute; top: 10px; left: 10px; font-size: 2em;">BC</div> <div style="position: absolute; top: 10px; right: 10px; font-size: 2em;">A-4</div> <div style="position: absolute; top: 350px; left: 300px;"> <p><b>Milk of large cetaceans. B. A. ZENKOVITSCH</b>          (Comp. rend. Acad. Sci. U.R.S.S.; 1936; 20, 203-205).--Analysis of milk of various species of whales are recorded. In general the fat contents are high, especially in those species which migrate north with their young early in the season. A. G. P.</p> </div>			
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SECONDARY INDEX		PRIMARY INDEX	

Zenkovich, B. A.

20048

USSR/Whaling Industry 4307.1000

Oct 1947

"Whale Fishing in the USSR and the General Outlook  
for Its Growth," B. A. Zenkovich, 6 pp

"Ryb Khoz" Vol XXIII, No 10

Gives tables showing extent of whale fishing in  
USSR from 1932, year of over-all Soviet intensifica-  
tion of national economy, to 1946. Cites production  
figures of USSR whaling industry in Far East, sum-  
marizing statistics of Japan and Korea over same  
period. Reviews whaling industry along North Ameri-  
can Pacific Coast for similar period.

20048



ZENKOVICH, B. A.

13045

USSR/Whaling Industry 4307.1000

Dec 1947

"The Whaling Industry of the USSR and the Prospects  
for Its Development," B. A. Zenkovich, 7 pp

"Rybnoye Khoz" Vol XXIII, No 12

Study of whaling regions and possibilities of Antarctic regions. Includes map of Antarctic regions with whaling fields indicated and tables giving data on whaling industry by season from 1919 to 1946, by varieties. This is conclusion of an article begun in issue No 10.

LC

13045

ZENKOVICH, B.A.

[Around the world on a whaling expedition] Vokrug sveta za kita-  
mi. Moskva, Gos. izd-vo geograficheskoi lit-ry, 1954. 407 p.  
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(Antarctic regions--Marine mammals)

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mladshiy red.; KISHLEVA, Z.A., red.kart; OLEBYKH, D.A., tekhn.red.

[Voyage to the southern oceans and around the world; notes of  
a participant in the First Soviet Scientific Expedition Around  
the World of the Academy of Sciences of the U.S.S.R., 1957-1958]  
Puteshestvie v Iuzhnyy okean i vokrug sveta; zapisi uchastnika  
1-i sovetskoi nauchnoi krugosvetnoi ekspeditsii Akademii nauk  
Soyuza SSR, 1957-1958 gg. Moskva, Gos.izd-vo geogr.lit-ry, 1960.  
326 p. (MIRA 13:12)  
(Voyages around the world) (Antarctic regions)

ZENKOVICH, B. A.

[illegible]

ZENKOVICH, B.A., kand.biol.nauk

Observations on whales during the third voyage of the Soviet  
Antarctic Expedition in 1957-1958. Inform.biul.Sov.antark.  
eksp. no.3:75-76 '58. (MIRA 12:4)

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(Antarctic regions--Whales)

PA 170T88

USSR/Oceanography - Littoral Dynamics Dec 48

"Deformation of a Trochoidal Wave at the Shore," B. P. Zenkovich, V. I. Budanov

"Meteorol i Gidrol" No 6, pp 99-101

Describes the "Medusa", instrument designed in the Inst of Oceanol, Acad Sci USSR, to measure wave velocities at the bottom close to shore. Complete unit has 4-cup vane, photocell, and 3-strand cable, and receiving unit (amplification stage, relay, and control instrument). Gives results of tests in Jul 47 on the Black Sea at the Caucasus shore. Submitted 13 Feb 48.

FDD

170T88



FEDOSEEV, A.D. and F.A. ZEM'KOVICH. Mostorozhdeniia glin SSSR; opisanie, sostav, svoistva i primeneniie; pod red. P.A. Zemiatchenskogo. Moskva, AN SSSR, 1937. 662 p. (Akademiia Nauk SSSR. Petrograficheskii institut im. F. IU. Levinson-Lessinga. Petrografiia SSSR. Seriia II, no. 2.)  
Bibliography at end of chapters. DLC: TE420.A6

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Fedorov, A. D., and Zenkovich, F. A. Ural diamonds  
(*Geophy. o* [8], 1905, and 1918). A short description of  
the chief deposits of diamonds located in the Ural is given.  
Laboratory experiments show that these diamonds are ex-  
cellent raw material for the production of hardest refrac-  
tories.

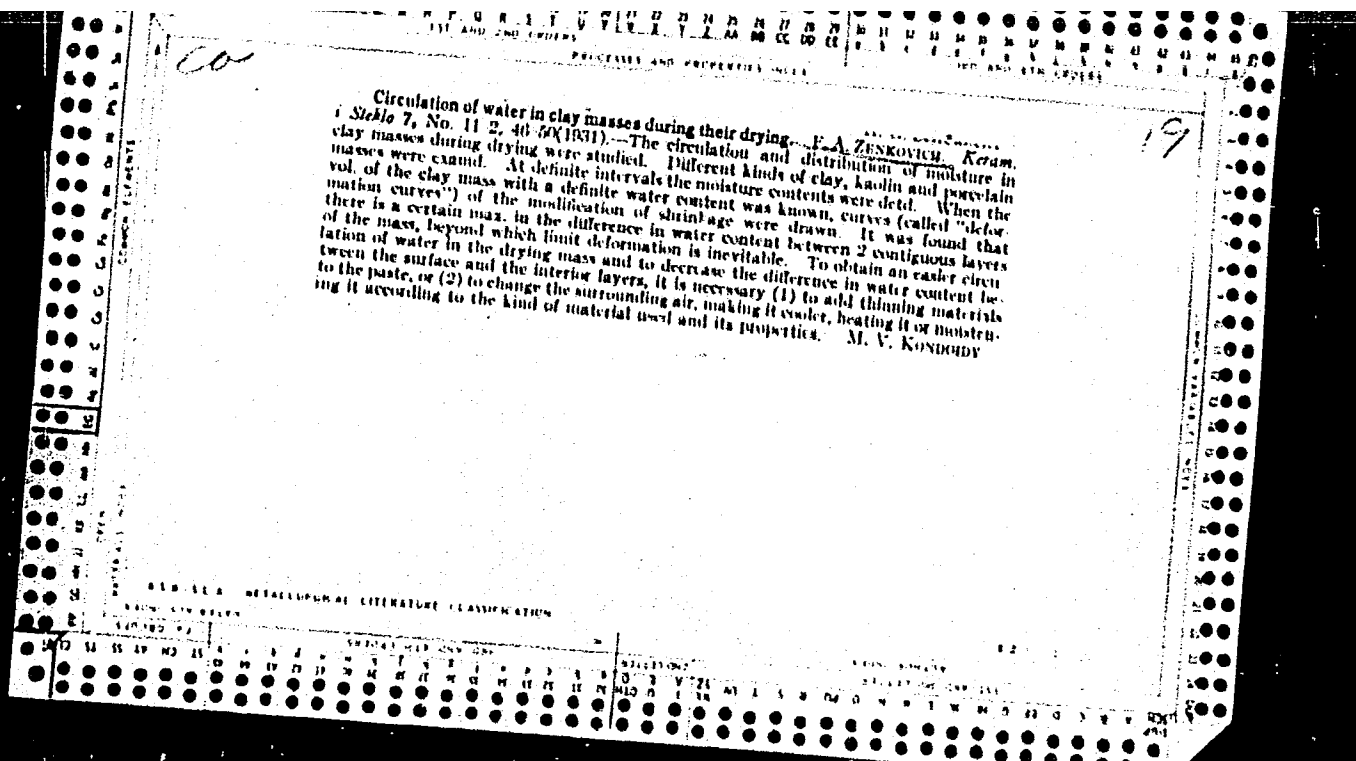
LA 19

Simple method for determining the refractoriness of clay. P. A. ZEMVATCHENKIN AND P. A. ZEMKOVICH. *Trans. Ceram. Research Inst (Moscow) No. 24, 1 20(1930)* — Clays were pulverized, mixed into a paste and molded into rooves. When the clay samples did not fuse, fluxes were added, and relative refractoriness was thus obtained. Fe<sub>2</sub>O<sub>3</sub> and CaO, which do not produce a eutectic, proved to be the best fluxes. Tables were compiled from which the fusing points could be ded. M. V. KONDOJIV

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS										PROCESSES AND PROPERTIES INDEX										3RD AND 4TH ORDERS									
<div style="position: relative;"> <div style="position: absolute; top: 10px; left: 10px; font-size: 2em;">CA</div> <div style="position: absolute; top: 10px; right: 10px; font-size: 2em;">19</div> <div style="position: absolute; top: 20%; left: 20%; width: 80%; text-align: center;"> <p><b>Simple method for determining the refractoriness of clay.</b> P. A. ZENYATCHENKIN AND P. A. ZENOVICH. <i>Trans. Ceram. Research Inst. (Moscow) No. 24, 1-29(1930)</i> — Clays were pulverized, mixed into a paste and molded into cones. When the clay samples did not fuse, fluxes were added, and relative refractoriness was thus obtained. <math>Fe_2O_3</math> and <math>CaO</math>, which do not produce a eutectic, proved to be the best fluxes. Tables were compiled from which the fusing points could be detd. M. V. KONDOBY</p> </div> </div>																													
<b>ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION</b>																													
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<b>330000 1ST</b>										<b>330000 2ND</b>										<b>330000 3RD</b>									



1ST AND 2ND ORDER
PROCESSING AND PROPERTY INDEX
3RD AND 4TH ORDER

CA

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**Refractory rocks in the U. S. S. R. P. A. Zen'kovich.**  
*Ogneupory S. SSSR (1940).*—A compilation is given of  
data on all known deposits of flint clay type materials in  
the U. S. S. R. A classification is suggested and informa-  
tion on their com. use is given. R. R. Stefanowsky

**ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION**

1ST ORDER										2ND ORDER										3RD ORDER										4TH ORDER									
1 2 3 4 5 6 7 8 9 10										11 12 13 14 15 16 17 18 19 20										21 22 23 24 25 26 27 28 29 30										31 32 33 34 35 36 37 38 39 40									

B-I-9

**Determination of the refractoriness of clay.**  
P. A. ZAMYATCHENSKI and P. A. ZENKOVSKI (Trans.  
Ceram. Rec. Ind., Moscow, 1950, No. 24, 1-39).—

When cones did not fuse, fluxes were added (ferro oxide  
and lime being the best) and the relative refractoriness  
was obtained by the use of tables.

CHEMICAL ABSTRACTS.

ASACSLA METALLURGICAL LITERATURE CLASSIFICATION

SECTION 1										SECTION 2										SECTION 3										SECTION 4									
IRON AND STEEL										NON-FERROUS METALS										METALLURGY										OTHER									
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1ST AND 3RD LETTER		2ND AND 4TH CROSS		1ST ON AT B TS C	
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<p>Zenkovich, P. A. Effect of various technological treatments on physical properties of sagger mixes. <i>Keram. i Steklo</i>, 10 [5] 12-18 (1931).—Sagger mixes produced according to the wet method have a higher thermal stability but a low mechanical strength, while mixes produced by the "rolled" method possess a higher mechanical strength but have a lower thermal stability.</p>					





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1ST AND 2ND LETTERS  
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21ST AND 22ND LETTERS  
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23RD AND 24TH LETTERS  
CROSS-REFERENCES

25TH AND 26TH LETTERS  
CROSS-REFERENCES

27TH AND 28TH LETTERS  
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29TH AND 30TH LETTERS  
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35TH AND 36TH LETTERS  
CROSS-REFERENCES

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CROSS-REFERENCES

39TH AND 40TH LETTERS  
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45TH AND 46TH LETTERS  
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47TH AND 48TH LETTERS  
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67TH AND 68TH LETTERS  
CROSS-REFERENCES

69TH AND 70TH LETTERS  
CROSS-REFERENCES

71ST AND 72ND LETTERS  
CROSS-REFERENCES

73RD AND 74TH LETTERS  
CROSS-REFERENCES

75TH AND 76TH LETTERS  
CROSS-REFERENCES

77TH AND 78TH LETTERS  
CROSS-REFERENCES

79TH AND 80TH LETTERS  
CROSS-REFERENCES

81ST AND 82ND LETTERS  
CROSS-REFERENCES

83RD AND 84TH LETTERS  
CROSS-REFERENCES

85TH AND 86TH LETTERS  
CROSS-REFERENCES

87TH AND 88TH LETTERS  
CROSS-REFERENCES

89TH AND 90TH LETTERS  
CROSS-REFERENCES

91ST AND 92ND LETTERS  
CROSS-REFERENCES

93RD AND 94TH LETTERS  
CROSS-REFERENCES

95TH AND 96TH LETTERS  
CROSS-REFERENCES

97TH AND 98TH LETTERS  
CROSS-REFERENCES

99TH AND 100TH LETTERS  
CROSS-REFERENCES

Fedorov, A. D., and Zankovich, P. A. URAL DUNITES.  
Ogneupory, 6 [8] 1395-99 (1938).—A short description of  
the chief deposits of dunitite located in the Urals is given.  
Laboratory experiments show that these dunitites are ex-  
cellent raw material for the production of forsterite refrac-  
tories.

R

Zemyatchenskii, P. A., and Zenkovitch, F. A.  
DETERMINING REFRACTORINESS OF CLAY. *Trans. Ceram.  
Research Inst. (U.S.S.R.)*, 24, 20 pp. (1950) - Clays which  
were pulverized, mixed into a paste, and molded into cones  
of a definite size, were fused by an apparatus consisting of a  
soldering pipe heated by a blasted alcohol flame. Knowing  
the diameter of the cone, it was easy to determine the melt-  
ing temperature of the clay cones. In cases where the clay  
samples did not melt, melting agents were added to the  
paste, and according to the quantity added, it was possible  
to ascertain the melting temperature. The diameter of  
the cone must remain constant. Iron oxide and lime,  
which do not produce a eutectic, proved to be the most ap-  
propriate melting agents. Tables were compiled from  
which the melting temperature could be ascertained.  
Comparing the results of these tests for the refractoriness of  
clays, a difference of about 50° was found. Only 30  
minutes are required for the tests. This method used in  
practice gave very satisfactory results.

ZEN'KOVICH, G., kand.arkhitektury

Designing and building sections of club houses. Stroi.i arkhitekt.  
8 no.6:19-21 Je '60. (MIRA 13:6)  
(Clubhouses)

ZEN'KOVICH, G. [Zen'kovych, H.], kand. arkhitektury

Design of a clubhouse to be built economically. Sil'. bud. 9 no.2:  
19-21 F '59. (MIRA 12:6)

(Clubhouses)

ZEN'KOVICH, G. [Zen'kovych, H.], kand.arkhitektury; GAYDUCHENYA,  
O. [Haiduchenia, O.], arkhitektor; SAMSONOVA, T., arkhitektor

Community center in a new village. Sil'. bud. 11 no.8:15-16  
Ag '61. (MIRA 14:9)

(Chornobaivka—Community centers)

TOPCHIEVA, K.V.; ZEN'KOVICH, I.A.; TRESHKOVA, Ye.G.

Effect of hydrogen on the thermal and catalytic cracking of  
n-octane. Vest.Mosk.un.Ser.mat., mekh., astron., fiz., khim.  
no.6:164-170 '59.

(MIRA 13:10)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.  
(Cracking process) (Octane)

TOPCHIEVA, K.V.; ZEN'KOVICH, I.A.; BUKANAYEVA, F.M.

Catalytic activity of rare earth oxides deposited on silica in reactions involving the decomposition of alcohol. Vest. Mosk. un. Ser. 2: Khim. 16 no.1:34-37 Ja-F '61. (MIRA 14:4)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.  
(Rare earth oxides) (Dehydration (Chemistry))



69791

S/055/59/000/06/20/027  
B004/B002

5.3300

AUTHORS:

Topchiyeva, K. V., Zen'kovich, I. A., Treshchova, Ye. G.

TITLE:

The Influence of Hydrogen on Thermal and Catalytic Cracking of n-Octane 1

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1959, No. 6, pp. 164 - 170

TEXT: For their investigation, the authors partly used a synthetic aluminosilicate ( $30\% \text{Al}_2\text{O}_3 + 70\% \text{SiO}_2$ ) and partly a commercial aluminosilicate catalyst. The range of the experimental temperature was  $450 - 550^\circ$ . The mixture obtained from hydrogen and cracking products was analyzed, its density was determined, and Raman spectra were taken from the liquid products. Preliminary experiments showed that besides catalytic cracking, also thermal cracking took place (Fig. 1). Therefore, the total yield of cracking and the yield of thermal cracking were determined and from the difference, also the yield of catalytic cracking. The yield of thermal cracking decreases with an increasing flow rate of octane, while that of catalytic cracking remains unchanged, namely 8%. The yield of thermal cracking was above all dependent on the experimental apparatus

Card 1/2

The Influence of Hydrogen on Thermal and Catalytic Cracking of n-Octane

69791  
S/055/59/000/06/20/027  
B004/B002

(Table 1, Fig. 2). The reaction furnace No. 1 used first had too much of lost space (gaps not filled by the catalyst) in which thermal cracking took place due to overheating. By using reaction furnace No. 2 thermal cracking of octane could be reduced to about one half. Table 2 and Fig. 3 give the results of the reaction after the addition of hydrogen and nitrogen. Hydrogen increases the yield of thermal cracking by 6%, and nitrogen by 3%. Fig. 4 shows that the yield of thermal cracking at 500° increases up to a constant value if the molecular ratio of  $H_2 : C_8H_{18}$  is increased. Fig. 5 shows the same result at 530°. The yield of catalytic cracking was not affected by hydrogen. Table 3 gives the analyses of the cracking products. In the presence of hydrogen, isomerization of n-octane set in. At 500° 5% of 3-methylheptane was obtained and at 550° 10%. The authors mentioned B. T. Abayeva (Ref. 4). There are 5 figures, 3 tables, and 11 references, 6 of which are Soviet.

ASSOCIATION: Kafedra fizicheskoy khimii (Chair of Physical Chemistry)

SUBMITTED: February 25, 1959

Card 2/2

TOPCHIEVA, K.V.; ZEN'KOVICH, I.A.; BUKANAYEVA, F.M.

Effect of rare earth oxide impurities on the catalytic properties  
of some oxide catalysts in reactions of hydrocarbons. Vest. Mosk.  
un. Ser. 2: Khim. 15 no.5:3-5 S-O '60. (MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet, kafedra fizicheskoy  
khimii.

(Rare earth oxides) (Catalysts)

S/189/60/000/005/001/006  
B110/217

AUTHORS:

Topchiyeva, K. V., Zen'kovich, I. A., Bukanayeva, F. M.

TITLE:

Effect exerted by the addition of rare earth oxides upon the catalytic properties of some oxidizing catalysts in hydrocarbon reactions

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya 2, khimiya, no. 5, 1960, 3-5

TEXT: Rare earths ( $\text{Sm}_2\text{O}_3$ ;  $\text{Nd}_2\text{O}_3$ ) are good dehydrogenating and cyclizing catalysts for paraffins and cycloparaffins, the activity of which is greatly increased by mixing with  $\text{Al}_2\text{O}_3$ . The authors aimed at obtaining a catalyst with bifunctional action (rare earth component for dehydrogenation) by adding rare earth oxides to aluminum silicate. The most active aluminum silicate (30%  $\text{Al}_2\text{O}_3$ ; 70%  $\text{SiO}_2$ ) with admixtures of 5% of the total weight of  $\text{La}_2\text{O}_3$ ;  $\text{Nd}_2\text{O}_3$ ;  $\text{Sm}_2\text{O}_3$ ;  $\text{Pr}_2\text{O}_3$ ;  $\text{Y}_2\text{O}_3$ ;  $\text{Yb}_2\text{O}_3$ , was tested.  $\text{Al}(\text{OH})_3$ , silica gel, and rare earth hydroxide were mixed and activated in the  $\text{N}_2$  current at  $550^\circ\text{C}$  to pro-

Card 1/5

Effect exerted by ...

S/189/60/000/005/001/006  
B110/B217

duce the catalysts. Each experiment was followed by reactivation in the air current at 500-550°C. Cumene cracking was studied at 450°C and a volume rate of 1 ml/ml·hr. When 5% oxide were added, the cracking ratio, mole of the separated gas : mole of passed through cumene decreased from 45% to 35%. n-octane was also investigated at 500°C and a volume rate of 0.65 ml/ml hr. The ratio, gas weight : weight of the passed through n-octane decreased by ≈ 2 mole%, with gas- and catalyzate composition remaining unchanged after analysis by means of BTM(VTI) apparatus. 5% Nd<sub>2</sub>O<sub>3</sub> admixture at 320°C, H<sub>2</sub> pressure = 24 atm., volume rate, 1 ml/ml·hr resulted at unchanged composition of the catalyzate in a decrease of cracking by ≈ 7 mole%. This reduction of activity is due to a contamination of the acid aluminum silicate centers by the strongly basic hydroxides of the rare earths and partial destruction of the aluminum silicate structure. Also the catalysts: 95% Al<sub>2</sub>O<sub>3</sub> : 5% Pr<sub>2</sub>O<sub>3</sub>; 95% Al<sub>2</sub>O<sub>3</sub> : 5% Yb<sub>2</sub>O<sub>3</sub>; 95% Al<sub>2</sub>O<sub>3</sub> : 5% Sm<sub>2</sub>O<sub>3</sub>; 80% Al<sub>2</sub>O<sub>3</sub> : 20% La<sub>2</sub>O<sub>3</sub>; 80% Al<sub>2</sub>O<sub>3</sub> : 20% Pr<sub>2</sub>O<sub>3</sub>, with n-octane at 500-545°C and a volume rate of 0.64-0.16 ml/ml·hr, resulted in no increase of activity. The increase of cracking by ≈ 6-10% obtained with 80% Al<sub>2</sub>O<sub>3</sub> : 20% Pr<sub>2</sub>O<sub>3</sub> at a volume rate of

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Effect exerted by ...

S/189/60/000/005/001/006  
B110/B217

0.16 ml/ml·hr is due to the hydrogenation properties of  $\text{Pr}_2\text{O}_3$ . The results the authors obtained with the following catalysts: 85%  $\text{Al}_2\text{O}_3$  : 15%  $\text{Me}_2\text{O}_3$  (Me = Nd, Sm) were in complete disagreement with those of V. I. Komarevsky (Ref. 1: Industr. and Engng. chem., 49, No. 2, 264-265, 1957). The experiment made by this researcher with heptane and 85%  $\text{Al}_2\text{O}_3$  with 15%  $\text{Nd}_2\text{O}_3$  was repeated, the catalyst being produced by his method of mixing and coprecipitation. The calculated amount of highly acid 0.39 M  $\text{Nd}(\text{NO}_3)_3$  was added to 0.725 M sodium aluminate solution. The catalyst was activated at 550°C in the  $\text{H}_2$  current. No increase of activity as compared to pure  $\text{Al}_2\text{O}_3$  was established. Possibly, Komarevsky prepared his mixing catalysts in a different way, or he compared their activity with that of the rare earth oxide and thought that  $\text{Al}_2\text{O}_3$  was inactive. The higher activity of his catalysts may also be due to  $\text{Al}_2\text{O}_3$  which, according to its way of preparation, may also have dehydrogenating properties (Table). There are 1 table and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The reference to English-language publications reads as follows: Ref. 2: Ciapetta F. G., Hunter J. Card 3/5

Effect exerted by ...

S/189/60/000/005/001/006  
B110/B217

B. Industr. and Engng. chem., 45, 147-55, 1953.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova,  
Kafedra fizicheskoy khimii (Moscow State University imeni M. V.  
Lomonosov Department of Physical Chemistry)

SUBMITTED: July 14, 1959

Legend to the Table: The conversion of n-heptane at 525°C on the mixing catalyst, 85%  $Al_2O_3$  : 15%  $Nd_2O_3$ ; 1) catalyst: volume rate ml/ml·hr; 2) thermal cracking 4.85 ml/hr; 3) coprecipitation method; 4) mixing method; 5) data by Komarewsky; 6) bulk factor of the catalyst, ml; 7) yield, wt%; 8) of gas; 9) of catalyst; 10) losses; 11) gas composition, vol%; 12) paraffins; 13) and 14) olefins; 15) aromatic components; 16) catalyzate composition, wt%.

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Effect exerted by ...

S/189/60/000/005/001/006  
B110/B217

Превращение n-гептана при 525° на смешанном катализаторе состава  
85%  $Al_2O_3$ :15%  $Nd_2O_3$  ...

1 Катализатор: объемная скорость, мл/мл·час	Насильной объем катализатора, мл	Выход, вес. %			Состав газа, %объемн. %			Состав ката- лизата, вес. %	
		газа 9	катализата 3	потери 10	$H_2$	парафины 12	олефины 13	олефины 14	ароматика 15
2 Термический крекинг 4,58 мл/час	—	15,6	85,0	0	1,00	85,8	13,2	1—2	...
$Al_2O_3$ 0,15	30	22,6	72,3	5,1	18,1	71,5	10,4	3—4	2
3 (Метод соосаждения) 0,15 85% $Al_2O_3$ :15% $Nd_2O_3$	30	17,2	70,2	12,6	15,8	73,2	11,0	5—7	2
4 (Метод смещения) 0,15 85% $Al_2O_3$ :15% $Nd_2O_3$	30	21,9	62,8	12,3	13,5	68,9	12,6	3	1
5 (Данные Комаренского) 0,15 85% $Al_2O_3$ :15% $Nd_2O_3$	30	—	71,8	—	64,8	22,5	12,3	10,3	21

Card 5/5



AUTHORS:

Topchiyeva, K. V., Pletyushkina, A. I., 79-28-3-13/61  
Zen'kovich, I. A.

TITLE:

The Reaction of Allyl Benzene on Catalysts of Aluminum  
Silicates (Pevrashcheniye allilbenzola na alyumosilikatnykh  
katalizatorakh)  
I. Investigation of the Reaction Kinetics  
(I. Izucheniye kinetiki prevrashcheniya)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 3, pp. 624-631  
(USSR)

ABSTRACT:

The present work continues earlier investigations on the reaction mechanism of the isomerization of hydrocarbons in order to likewise check the assumption made before that there are two kinds of active centers acting in this reaction mechanism. For this purpose the reaction kinetics of an aromatic hydrocarbon with unsaturated binding in the side chain - the allyl benzene - was investigated; this was done in liquid and vapor phase on conditions excluding cracking. In this different catalysts from the aluminum silicate series as well as pure aluminum oxide were used. This preferred

Card 1/3

The Reaction of Allyl Benzene on Catalysts of Aluminum  
Silicates.

79-28 -3-13/61

I. Investigation of the Reaction Kinetics

reaction enabled the authors to observe not only the rules of isomerization showing in it but also to trace the di- and polymerization processes of allyl benzene. In the contact of allyl benzene with the mentioned catalysts not only an isomerization takes place which consists of a re-grouping of the double bond in the side chain, but also a profound re-arrangement of the initial product under the formation of a di- and polymer. The active centers of aluminum oxide and of the other catalysts only direct the isomerization connected with the re-grouping of the double bond in the side chain. The aluminum silicate centers catalyze the reactions of isomerization, of the di- and polymerization, which was proved by experiments. The step-by-step reaction mechanism of allyl benzene on the mentioned catalysts was found. The difference in the reaction mechanism of allyl benzene under the influence of catalysts having different percentual quantities of aluminum oxide is mentioned. The applicability of the equation for monomolecular heterogenous catalytic reactions in the reaction flow is shown when the reaction

Card 2/3

The Reaction of Allyl Benzene on Catalysts of Aluminum Silicates. 79-28-3-13/61

I. Investigation of the Reaction Kinetics

products are absorbed more quickly than the initial compounds in the case of the isomerization of allyl benzene above aluminum oxide in the vapor phase. There are 9 figures, 2 tables, and 17 references, 14 of which are Soviet

ASSOCIATION: Moskovskiy gosudarstvennyy universitet  
(Moscow State University)

SUBMITTED: January 28, 1957

Card 3/3

ZEN'KOVICH, I.A.; TRESHCHOVA, Ya.G.; TOPCHIYEVA, K.V.

Transformation of phenylcyclopropane on aluminum oxide with  
boron fluoride. Vest. Mosk. un. Ser. 2:Khim. 20 no. 5:19-22  
S-0 '65. (MIRA 18:12)

1. Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo  
universiteta. Submitted Dec. 15, 1964.

ZEN'KOVICH, P.

"Bryansk antiquities" by A. Shkrob, V. Sokolov. Reviewed by  
P. Zen'kovich. Geog. v shkole 25 no.3:93-95 My-Je '62. (MIRA 15:7)  
(Bryansk Province--Names, Geographical)  
(Shkrob, A.) (Sokolov, V.)

VOLKOV, A.A.; MURATKHODZHAYEV, N.K.; ZEN'KOVICH, S.G.; SINITSYN, R.V.;  
BELYAYEV, V.V.

Radiation load of medical personnel working with Au<sup>139</sup> granules  
in a neuro-oncological clinic. Med. rad. 8 no.5:39-43 My '63.  
(MIRA 17:5)

1. Iz Leningradskogo neyrokhirurgicheskogo instituta imeni  
prof. A.L. Polenova.

BADMAYEV, K.N.; ZEN'KOVICH, S.G.; SOKOLOV, I.A.

Scintillation gamma-encephalometer for the diagnosis of brain  
tumors. Med. rad. 5 no.4:57-64 Ap '60. (MIRA 13:12)  
(BRAIN-TUMORS) (RADIOMETER)

ZEN'KOVICH, S.G.

Optimum collimation of the scintillation counter in radioisotope diagnosis of tumors. Med. rad. 8 no.3:77-81 Mr '63. (MIRA 17:9)

1. Iz Leningradskego nauchno-issledovatel'skogo neyrokhirurgicheskogo Instituta imeni prof. A.L.Polenova.



ZENKOVICH, V. P.

USSR/Medicine - Infectious Diseases  
(Veterinary)

May 51

"Experience in the Elimination of Equine Infectious Anemia According to B. M. Bosh'yan (Preliminary Communication), V. P. Zenkovich, S. P. Kupreyshvili, V. F. Shatalov, Veterinarians

"Veterinariya" Vol XXVIII, No 5, pp 28, 29

Finds allergen Anemin VIEV [anemin of All-Union Inst of Exptl Vet Med] is sp diagnostic prepn (although some clinically sick horses do not react to it in the eye test) and VIEV vaccine is effective in therapy and prophylaxis of equine infectious anemia.

LC

182T74

SHATALOV, V. F.; ZENKOVICH, V. P.; BONDAREV, G. A.; LUNIN, N. T.

Swine - Diseases

Evaluating the efficacy of vaccines against swine erysipelas. Veterinariia. 29 No. 7 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED

ZENKOVICH, V.P.; SHATALOV, V.F.

Freeing farms of infectious anemia in horses by using Doctor  
of Biological Sciences G.M. Bosh'ian's method. Veterinariia 30  
no.6:20-22 Je '53.  
(MLBA 6:5)

ZENKOVICH, V.P., veterinarnyy vrach; LUNIN, N.T., veterinarnyy vrach.

Retained placenta in cows and methods of its removal. Veterinariia  
32 no.11:74 N 155. (MLRA 8:12)  
(VETERINARY OBSTETRICS) (PLACENTA--DISEASES) (COWS--DISEASES)

ZENKOVICH, V.P.

(Vasvold Karlovich)

PA 50T77

USSR/Oceanology  
Waves, Ocean

Jan 1946

"On the Study of Littoral Dynamics," V. P. Zenkovitch,  
12 pp

"Trudy Instituta Okeanol" Vol I

Briefly outlines results of submarine observations carried out on the south coast of Crimean Peninsula (Black Sea). Describes topographic relations, and rocks and sediments of the bottom, observes and experimentally determines the dynamics of the wave action.

10

50T77

ZENKOVICH, V.P., doktor geogr. nauk; GRIGOR'YEV, A.A., akademik, otv.  
red.; SHPAK, Ye.G., tekhn. red.

[Dynamics and morphology of seashores] Dinamika i morfologiya  
morskikh beregov. Moskva, Izd-vo "Morskoi transport." Pt.1. [Wave  
processes] Volnovye protsessy. 1946. 495 p. (MIRA 15:2)  
(Coast changes) (Waves)

ZENKOVICH, V. P.

PA 27T52

USSR/Geology  
Erosion

Nov 1946

"The Destruction of Limestone on the Caspian Shore,"  
Dr V. P. Zenkovich, 1 $\frac{1}{2}$  pp

"Priroda" No 9

Short discussion, with three photographs, of erosion  
of the shore of the Caspian Sea.

ID

27T52

"Influence of Eustatic Oscillations of the Ocean's Level Upon Bottom and Shore Relief,"  
Works of the Institute of Geography of Academy of Sciences USSR, No 37, 1946 (55-63).  
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953



PA-2T81

USSR/Hydrography

1946

"New Ideas in the Study of Littoral Dynamics,"  
V P Zenkovitch, 14 pp

"Izv Geog" Vol 78, No 5-6

Theoretical discussion illustrated with diagrams  
and examples

2T81

21466

ZEMKOVICH, V. P.

Izucheniye dinamiki morskikh beregov.

Trudy Vtorogo Vsesoyuz. geogr. s"yezda. T. P.M., 1948, s. 144 - 51

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

1. ZENKOVICH, V.P.

2. USSR (600)

"Observations of Origination of Beach Festoons" Trudy instituta okeanologii AN  
USSR, Volume II, 1948 (35-42).

9. Meteorologiya i Gidrologiya, No. 3, 1949. Report U-2551, 30 Oct 52.

ZENKOVICH, V. P.: BUDANOV, V. I.

Waves

Deformation of a trochoidal wave at the shore. Mat, i gidrol. No. 6, 1948.

9. Monthly List of Russian Accessions, Library of Congress, November 195<sup>2</sup><sub>3</sub>, Uncl.

ZENKOVICH, V. P.

USSR/Geology  
Potamology

Jun 48

"Structure of the Estuaries of Some Caucasian Rivers," V. P. Zenkovich, 1½ pp

"Priroda" No 6

Briefly discusses theoretical and possible reasons for great depth of the rivers, and formations of the estuaries of rivers in the Caucasus emptying into the Black Sea.

2/49T54

ZENKOVICH, V.P.  
25438

Nablyudeiya Nad Obrazovaniem «Plyazhevykh Festonov». Trudy In-Ta Okeanologii  
(Akad. Nauk SSSR,) T. 11, 1948, s. 35-42

SO: LETOPIS NO. 30, 1948

PA 62T59

USSR/Geology  
Hydrography

Apr 1948

"Currents of Coastal Alluvium on the Caucasian Littoral of the Black Sea," V. P. Zenkovich, Inst of Oceanology, Acad Sci USSR, 3 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LX, No 2

Briefly describes the currents carrying alluvial deposits along the littoral of the Black Sea as reason for changes in the coast line, and coastal hydrography. Submitted by Academician P. P. Shirshov, 13 Feb 1948.

62T59

PA 77T104

USSR/Oceanology  
Bottom Sediments

May 1948

"The Forms of the Accumulation of the Conglomerate Alluvium on the Caucasus Coast of the Black Sea," V. E. Zenkovich, Inst of Oceanology, Acad Sci USSR, 4 pp

"Dok Ak Nauk SSSR" Vol LX, No 4

Along this coast three streams of conglomerate deposits move from northwest to southeast, consisting of material of predominantly alluvial origin. Describes structure of resultant formations with aid of sketches. Submitted 9 Feb 1948.

77T104



ZENKOVICH, V. P.

PA 55/49T78

USSR/Oceanography  
Sea Bottom

Nov 48

"Developing an Abrasion Design in the Process of  
Increasing the Sea Level," V. P. Zenkovich, Inst of  
Oceanol, Acad Sci USSR, 3 1/3 pp

"Dok Ak Nauk SSSR" Vol LXIII, No 2

Three types of sea bottom are distinguished in  
explaining rise in Black Sea level. Profile of  
bottom is worked out for abraded sections. Compara-  
tive data for various seas gives general outlines  
of the direction and tempo of recent movements.  
Submitted by Acad P. P. Shirshov 22 Sep 48.

55/49T78

ZENKOVICH, U. P.

21368 ZENKOVICH, U. P. Mirouye karty tipou morskikh Beregov. (Klassifikatsiya i sistema oboznacheniy)--V ogi: V. M. Zenkouiya. Trudy vtorogo vssoyuz Geogr. S"ezda. T. III M., 1949 , S. 36-38

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

ZENKOVICH, V. P.

Zenkovich, V. P. - "On preparing muddy sea deposits for mechanical analysis",  
Trudy In-ta okeanologii (Akad. nauk SSSR), Vol. 111, 1949, p. 157-72, -  
Bibliog: p. 172.

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

ZEIKOVICH, V.P.

Coarse cobble bench as a characteristic of a submerged shoreline.  
Trudy Inst.ocean. 4:160-164 '49. (MLRA 9:3)  
(Shore lines)

ZENKOVICH V.P. ; KASHIN, YuS.

Seashore

Displacement of pebbles along the Caucasian shore of the Black Sea, Met. i gidrol.,  
No. 5, 1949.

Monthly List of Russian Accessions, Library of Congress, October, 1952. UNCLASSIFIED.

Zankovich, V.P.

Some factors on the formation of sea terrace

Doklady Akademii Nauk, SSSR.  
Vol. 65, No. 1, 1949, pp. 53-5

E.N.L. Guide to R.-scientific Per. Lit., No. 6, June 1949, p. 195

ZENKOVICH, V. P.

PA 165T55

USSR/Oceanology - Relief, Shore Line

1 Jun 50

"Latest Subsidence of the Banks of West Kamchatka,"  
V. P. Zenkovich, A. T. Vladimirov, Inst of Oceanol,  
Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXII, No 4, pp 753-754

Discusses results of surveying coastal plain in western Kamchatka. Analysis of data obtained by surveying leads to conclusion that 6-7 m lowering occurred in certain parts of coastal zone and this process continued for 1,000-2,000 yr. Coastal line is stabilized now since no modification in its shape has been observed for several decades.

165T55

ZENKOVICH, V. P.

166T30

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USSR/Geophysics - Oceanography

1 Jul 50

"Conservation of the Forms of Meso-Relief at  
the Bottom of a Deep Sea," V. P. Zenkovich,  
Inst of Oceanography, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXIII, No 1, pp 67-68

Accumulated data on pelagic soundings shows  
sharp difference between reliefs of silt on con-  
tinental shelves and of silt on deep bottoms.  
On shelves, motion of waters levels the bottom.  
while in quiet deep regions the Meso-relief is  
preserved. Submitted 8 May 50 by Acad P. P.  
Shyrshov

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166T30



ZENOKOVICH, V. P., VLADIMIROV, A. T.

Coast Changes

Structural analysis of accumulated coastal terrace., Vop. geog., 26, 1951.

Monthly List of Russian Accessions, Library of Congress, April 1952. Unclassified.

- L. ZENKOVICH, V.P.
2. USSR (600)
4. Technology
7. Seashore, Moskva, Gostekhizdat. 1952
9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

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Sand Bars

Double sand bars enclosing lagoons and estuaries Priroda no 2, 1952

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